

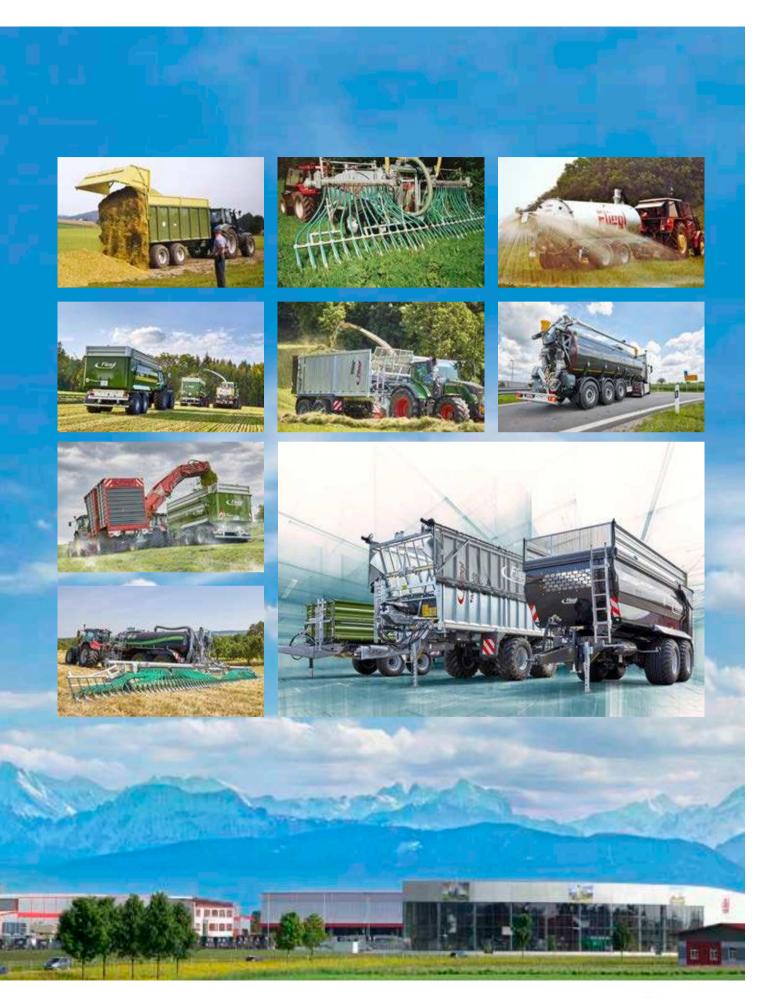


A TRADITION FOR INNOVATION

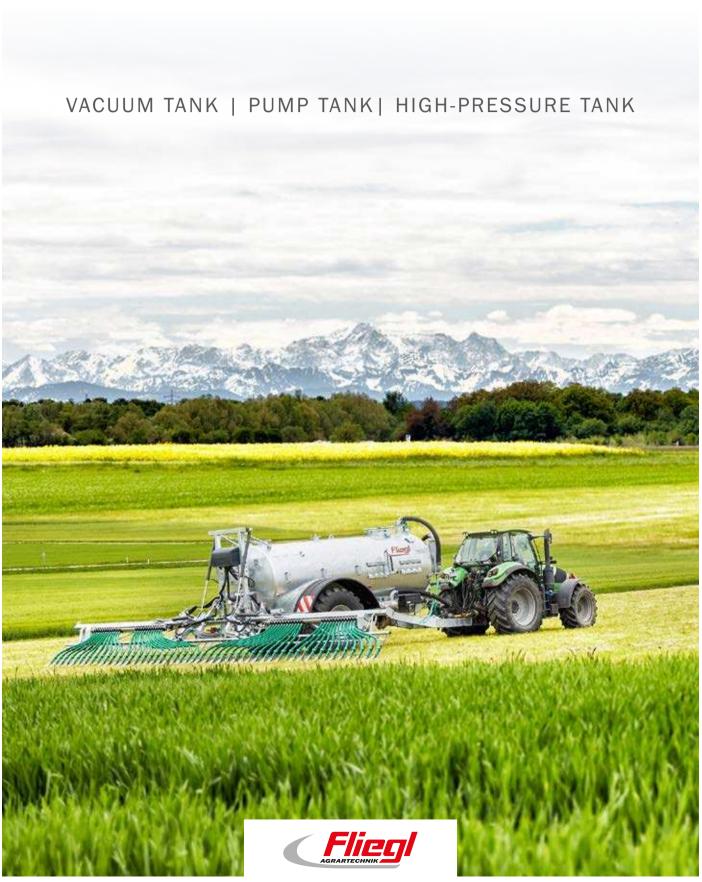
For decades now, the name Fliegl has stood for quality, innovative action and practical solutions in the world of agriculture. As a result, Fliegl has established itself as Europe's leading manufacturer in the field of agricultural trailers, for example. Be it tippers, original push-off trailers, slurry technology or harvest logistics:

FLIEGL WILL ALWAYS SUPPLY THE PERFECT TRANSPORT CONCEPT FOR YOU.











COMPRESSORS AVAILABLE WITH



DIFFERENT POWER LEVELS*

^{*} The images merely show examples from our range

Equipment for vacuum tanks



















- 1. Overpressure valve 0.5 bar
- 2. Overpressure/vacuum valve
- 3. Preparation for filling dome
- 4. Additional siphon, up to 8600 I
- **5.** Foam separator, from 10,600 I
- **6.** Suction nozzle, left or right, for easy suction, incl. docking station
- 7. Siphon
- 8. Hydraulic double-flanged valve

- **9.** Hydraulic drawbar suspension (standard on many tank lines)
- 10. Hydraulic control block
- **11.** Fill level indicator with float ball
- 12. Plexiglas fill level indicator
- **13.** Hydraulic filling dome (400 mm or 600 mm)
- **14.** Mechanical filling dome Ø 400 mm

- **15.** Hydraulic compressor changeover
- **16.** Turbo filler possible on left or right side.

 Opening facility provides optimum access
- **17.** Hydraulic internal agitator with paddle screw
- 18. Air agitator



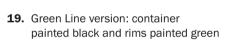












- **20.** Discharge accelerator with or without shredding cutter
- 21. Digital tank counter
- **22.** Dummy flange, front left, right and rear
- 23. Manway with hydr. discharge valve
- **24.** Silencer with oil separator (standard on many tank lines)
- 25. Ladder
- 26. LED working light
- 27. LED lights
- **28.** Four-point hydraulics (depending on tank line and size)



- 29. Docking station for elevated tank
- **30.** Control panel with joystick control for »Elefant« suction arm.

 Proportional operation possible (only available for specific tank lines)
- 31. Grease block
- **32.** Double jointed suction arm "Elephant"



















PERFECT TECHNOLOGY FOR



HIGH-PERFORMANCE SUCTION AND SPREADING

Equipment for pump tanks

















- **1.** Suction tube with sight glass and foreign body separator
- **2.** Pump case with sight glass and foreign body separator
- 3. Clear to see through sight glass: slurry flow and foreign body separator
- **4.** Control panel for tank + spreader, depending on configuration
- 5. Hydraulic control block
- **6.** Pneumatic pump changeover with knife gate valve
- **7.** Hydraulic pump changeover with knife gate valve
- 8. Fill level indicator
- 9. Ladder

- 10. Armatec eccentric screw pump
- 11. Wangen eccentric screw pump
- **12.** Vogelsang rotary piston pump for Alpha Line, Big Foot, TWIST Line and Poly Line tanks









Rotary piston pump Image credit: Vogelsang GmbH & Co. KG, 49632 Essen/Oldb., Germany



















- 13. Plexiglas fill level indicator
- 14. Conical three-way valve
- 15. Tank counter
- **16.** Hydraulic drawbar suspension (standard on many tank lines)
- **17.** Suction nozzle, left or right, for easy suction, incl. docking station
- 18. Hydraulic push cover
- 19. Preparation for push cover
- 20. Manway
- 21. Docking station for elevated tank
- **22.** Green Line version: container painted black and rims painted green

- **23.** Four-point hydraulics (depending on tank line and size)
- 24. LED working light
- **25.** LED lights (standard on many tank lines)
- 26. Control panel with joystick control for »Elefant« suction arm.
 Proportional operation possible (only available for specific tank lines)
- 27. Grease block
- 28. Shredding cutter during suction hydr. powered (only available for Alpha and Poly Line tanks with eccentric screw pumps)
- **29.** Reduction gear for eccentric screw pump



















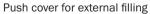
HFW high pressure tank

Capacity: 5.000 I to 27.500 I

The ideal solution for farms with external filling









Fill level indicator, top



Standard equipment



Optional



TANK SIZES FOR HIGH-PRESSURE TANKS					
Individual	Poly Line	Jumbo Line Plus	Maxx Line Plus		
5000	6000	14000	14000		
6200	9000	16000	16000		
7500	11000	18000	18000		
8600	12500				
10600	14000	_			
12000	15500	_			
14000	18500	_			
16000					
18000					
20000					
22000	_				
25000	_				
27500	_				





Internal view

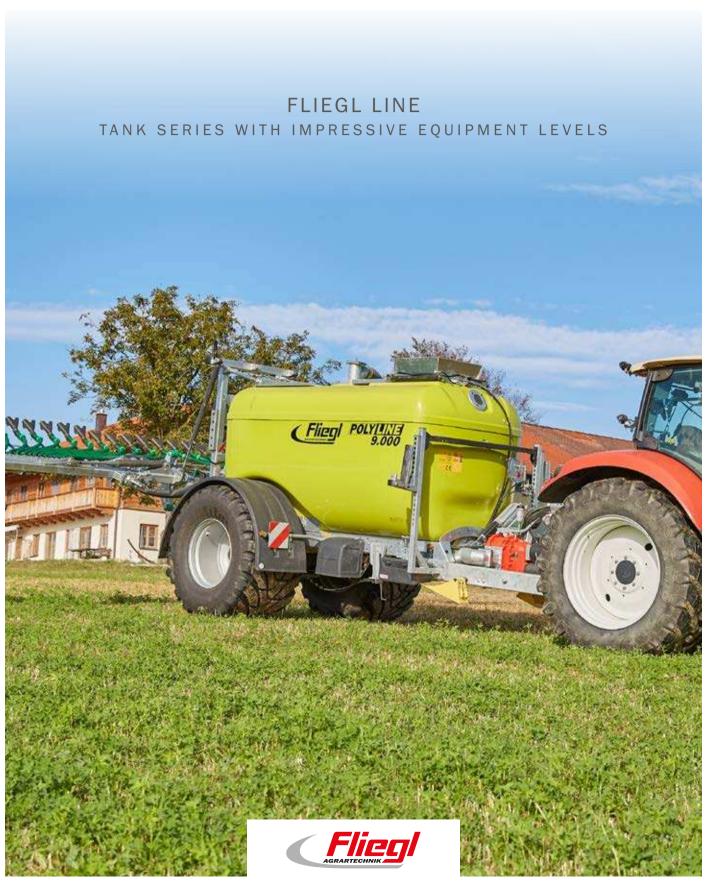
Elba centrifugal pump from Battioni, 3500

or 6500 I/min.



Purge line incl. three-valve for optimum stirring function





FLIEGL LINE

TANKS WITH IMPRESSIVE EQUIPMENT LEVELS



JUMBO Line

Vacuum tanks with a capacity of 3000 I to 10,600 I in single-axle design

Ideal for smaller farms working on steep inclines



JUMBO TURBO Line

Vacuum tanks with a capacity of 3000 I to 8600 I in single-axle design

Optimum solution for steep areas thanks to Garda Pump in combination with optional sprinkler nozzle



JUMBO Line Plus

Pump/Vacuum tanks with a capacity of 14,000 I to 18,000 I in tandem design

Variable adjustment of drawbar load – perfect for operation on inclines



MAXX Line

Pump/Vacuum tanks in single-axle, tandem and tridem design with a capacity of 5000 I to 25,000 I

Robust construction with low centre of gravity and reliable technology



MAXX Line Plus

Pump/Vacuum tanks with a capacity of 12,000 I to 18,000 I in tandem design

The perfect all-rounder with impressive basic equipment and 750/60 R 30.5 tyres as standard



TOP Line Plus

of 16.000 I to 20.000 I Universal application in terms of suction and shredding



DUO Line Plus

Integrated two-chamber system

Perfect for spreading on very
hilly terrain



ALPHA Line

Pump/Vacuum tanks in single-axle, tandem and tridem design with a capacity of 10,600 l to 27,500 l

For professional and intensive use with a range of sophisticated additional equipment



POLY Line

Pump tank from 9000 I to 18,500 I High-pressure tank from 6000 I to 18,500 I

GRP container made in Germany – robust frame construction – low centre of gravity



BIG FOOT

Pump/Vacuum tanks with a capacity of 16,000 I and 18,000 I

Extremely large tyres with dimensions from 800/60 R 34 for sustainable soil protection



TWIST Line

Pump tank with a capacity of 13,000 I

Slurry discharge in crab steering mode thanks to centre axle steering for maximum agility and soil protection



POWER TURBO LINE

Vacuum tanker with a capacity of 30,000 L

10" suction arm "Elephant" provides exceptional flexibility and performance. Excellent driving characteristics thanks to air suspension – highly maneuverable due to the short tank length.



PROFI Line

Vacuum tank with a capacity of 20,000 I and 27,500 I

A gigantic tank with maximum suction performance thanks to the flexible, high-performance suction boom

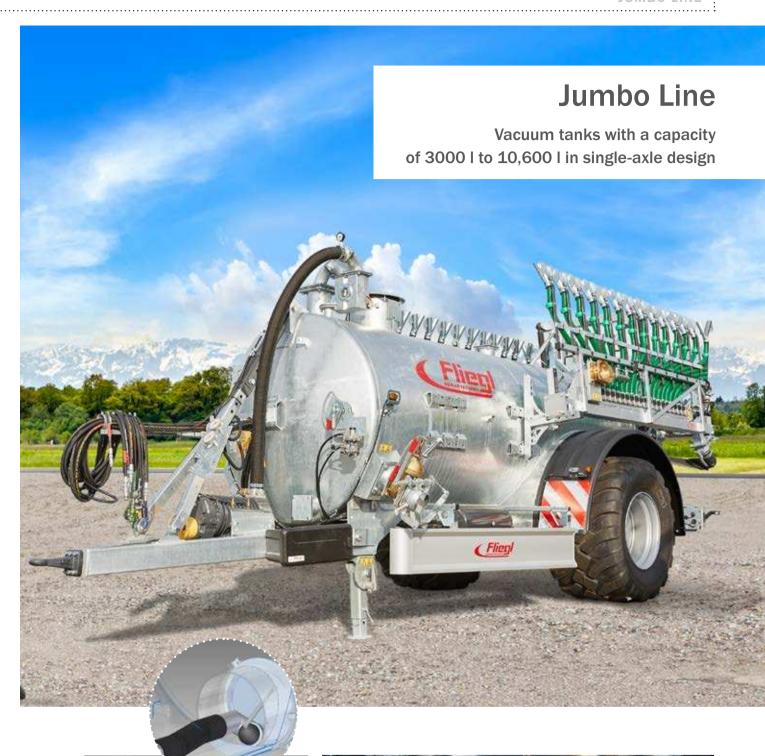


Individual tanks

Many possibilities with a wide range of equipment options



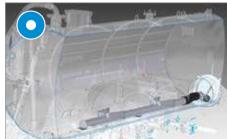
Jumbo Line	With tyres	Total height in mm without trailing shoe spreader	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
3000	15.0/55-17 10 PR	approx. 2310 +/-30	Not possible	3000	1100
4000	15.0/55-17 10 PR	approx. 2440 +/-30	Not possible	3000	1250
5000	710/45 R 26.5	approx. 2620 +/-30	approx. 3280 +/-30	3000	1400
6200	710/45 R 26.5	approx. 2620 +/-30	approx. 3280 +/-30	4000	1400
7500	750/45 R 26.5	approx. 2790 +/-30	approx. 3280 +/-30	4000	1500
8600	750/60 R 30.5	approx. 2940 +/-30	approx. 3280 +/-30	4000	1600
10600	800/65 R 32	approx. 3040 +/-30	approx. 3280 +/-30	5000	1600



Downhill emptying

Cranked axle on 5000 to 8600 I models Low centre of gravity ensures optimum handling on slopes





Downhill emptying



Cranked axle on 5000 to 8600 I models Low centre of gravity ensures optimum handling on slopes



Jumbo Turbo Line	With tyres	Total height in mm without trailing shoe spreader	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
3000	15.0/55-17 10 PR	approx. 2630 +/-30	Not possible	3000	1100
4000	15.0/55-17 10 PR	approx. 2840 +/-30	Not possible	3000	1250
5000	710/45 R 26.5	approx. 2920 +/-30	approx. 3280 +/-30	3000	1400
6200	710/45 R 26.5	approx. 2920 +/-30	approx. 3280 +/-30	4000	1400
7500	750/45 R 26.5	approx. 3050 +/-30	approx. 3280 +/-30	4000	1500
8600	750/60 R 30.5	approx. 3260 +/-30	approx. 3280 +/-30	4000	1600

Jumbo Line Plus

Pump/Vacuum tanks with a capacity of 14,000 I to 18,000 I in tandem design





Hydraulic or electronic forced steering



Wheel arch and tyres 750/60-R30.5" tyres Optional: 750/60-R30.5" tyres at rear, 850/50-R30.5 at front



Ball head K80

PFW Jumbo Line Plus tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
14000	750/60 R 30.5	approx. 3540 +/-30	6000	1700
16000	750/60 R 30.5	approx. 3540 +/-30	6000	1800
18000	750/60 R 30.5	approx. 3620 +/-30	6000	1900
			•	

VFW Jumbo Line Plus tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
14000 75	0/60 R 30.5	approx. 3430 +/-30	6000	1700
	0/60 R 30.5	approx. 3550 +/-30	6000	1800
18000 75	0/60 R 30.5	approx. 3650 +/-30	6000	1900



Hydraulically adjustable axle assembly



Optimum adaptation of drawbar load:

infinite hydraulic adjustment, incl. for attachment of slurry spreaders, e.g. trailing shoe spreader



Axles moved back for field operation

Higher drawbar load = improved tractor traction



Axles moved forward for driving on road

Lower drawbar load = better ride comfort and less wear



Hydraulic axle adjustment



Boogie SB floating assembly



MAXX Line single-axle

Pump/Vacuum tanks with a capacity of 5000 I to 10,600 I



PFW Maxx Line single-axle	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
6200	750/45 R 26.5	approx. 3280 +/-30	4000	1400
7500	750/45 R 26.5	approx. 3280 +/-30	4000	1500
8600	750/60 R 30.5	approx. 3280 +/-30	4000	1600
10600	800/65 R 32	approx. 3280 +/-30	5000	1600

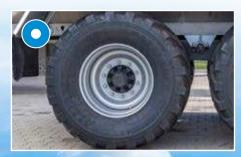


VFW Maxx Line single-axle	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
5000	710/45 R 26.5	approx. 3280 +/-30	3000	1400
6200	710/45 R 26.5	approx. 3280 +/-30	4000	1400
7500	750/45 R 26.5	approx. 3280 +/-30	4000	1500
8600	750/45 R 26.5	approx. 3280 +/-30	4000	1600
10600	750/45 R 26.5	approx. 3280 +/-30	5000	1600



MAXX Line tandem

Pump/Vacuum tanks with a capacity of 8600 I to 18,000 I



Up to 26.5" tyres possible



PFW Maxx Line tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
8600	710/45 R 22.5	approx. 3280 +/-30	4000	1600
10600	750/45 R 26.5	approx. 3280 +/-30	5000	1600
12000	750/45 R 26.5	approx. 3300 +/-30	5000	1700
14000	750/45 R 26.5	approx. 3370 +/-30	5500	1800
16000	750/45 R 26.5	approx. 3420 +/-30	6000	1800
18000	750/45 R 26.5	approx. 3460 +/-30	6000	1900







»TITAN« axle assembly up to MAXX Line 14,000 I



»Gigant« axle assembly for MAXX Line 16,000 I



»Gigant Plus« axle assembly from MAXX Line 18,000 I



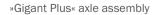
VFW Maxx Line tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
8600	710/45 R 22.5	approx. 3280 +/-30	4000	1600
10600	750/45 R 26.5	approx. 3280 +/-30	5000	1600
12000	750/45 R 26.5	approx. 3280 +/-30	5000	1700
14000	750/45 R 26.5	approx. 3400 +/-30	5500	1800
16000	750/45 R 26.5	approx. 3400 +/-30	6000	1800
18000	750/45 R 26.5	approx. 3470 +/-30	6000	1900

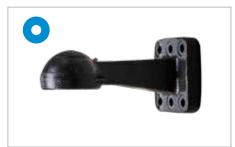
MAXX Line tridem Pump/Vacuum tanks with a capacity of 20,000 I and 25,000 I (Fliegl

PFW MAXX Line tridem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
20000	750/45 R 26.5	approx. 3460 +/-30	7000	1900
25000	750/45 R 26.5	approx. 3560 +/-30	7450	2000
VFW MAXX Line tridem				
20000	750/45 R 26.5	approx. 3470 +/-30	7000	1900
25000	750/45 R 26.5	approx. 3570 +/-30	7450	2000









Ball head K80



Up to 26.5" tyres possible





Optional

MAXX Line Plus

Pump/Vacuum tanks with a capacity of 12,000 I to 18,000 I in tandem design





»Gigant« axle assembly for MAXX Line Plus 12,000 I and 14,000 I



»Gigant Plus« axle assembly for MAXX Line Plus 16,000 I and 18,000 I



Hydraulic drawbar suspension









Hydraulic or electronic forced steering



Ball head K80



For vacuum tank: turbo filler positioned centrally under tank – for suction on either side

TOP Line Plus

Vacuum tanks with a capacity of 16.000 I to 20.000 I in tandem design

Position of the turbo filler with double-jointed suction arm "Elephant"





Cutting cutter: For separating foreign objects and shredding fibers.



Double-jointed suction arm "Elephant". End piece optionally available as a pipe.



Hydraulic drawbar suspension





VFW TOP Line Plus Tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
16000	750/60 R 30,5	ca. 3800 +/- 30	6000	1800
18000	750/60 R 30,5	ca.3900 +/- 30	6000	1900
20000	750/60 R 30.5	ca. 4000 /- 30	6000	2000





Hydraulic or electronic forced steering



Spreading accelerator mounted at the top on the tank side



For vacuum tank: turbo filler positioned centrally under tank – for suction on either side





Residual emptying takes place once the slurry volume in the rear chamber has dropped to a level that allows air to enter the front chamber via the separating wall.



PFW DUO Line Plus tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
12000	750/60 R 30.5	approx. 3590 +/-30	5500	1700
14000	750/60 R 30.5	approx. 3590 +/-30	6000	1700
16000	750/60 R 30.5	approx. 3520 +/-30	6000	1800
18000	750/60 R 30.5	approx. 3620 +/-30	6000	1900

Alpha Line single-axle

Pump/Vacuum tanks with a capacity of 10,600 I to 14,000 I





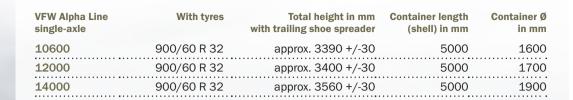
Only for pump tanks: 8" suction arm, 5 m length



Tyres for spreading on maize crops



Tyre pressure control system







For vacuum tank: turbo filler positioned centrally under tank – for suction on either side

PFW Alpha Line single-axle	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
10600	900/60 R 32	approx. 3380 +/-30	5000	1600
12000	900/60 R 32	approx. 3390 +/-30	5000	1700
14000	900/60 R 32	approx. 3560 +/-30	5000	1900





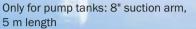
Alpha Line tandem

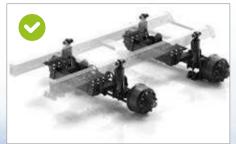
Pump/Vacuum tanks with a capacity of 14.000 I to 20.000 I



PFW Alpha Line tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
14000	750/60 R 30.5	approx. 3460 +/-30	6500	1700
16000	750/60 R 30.5	approx. 3540 +/-30	6500	1800
18000	750/60 R 30.5	approx. 3650 +/-30	6500	1900
20000	750/60 R 30.5	approx. 3750 +/-30	6500	2000







Hydraulic axle suspension



For vacuum tank: turbo filler positioned centrally under tank – for suction on either side



VFW Alpha Line tandem	With tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
14000	750/60 R 30.5	approx. 3450 +/-30	6500	1700
16000	750/60 R 30.5	approx. 3560 +/-30	6500	1800
18000	750/60 R 30.5	approx. 3660 +/-30	6500	1900
20000	750/60 R 30.5	approx. 3780 +/-30	6500	2000



Alpha Line tridem

Pump/Vacuum tanks with a capacity of 23,000 I to 27,500 I





Only for pump tanks: 8" suction arm, 5 m length



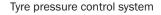
Hydraulic or electronic forced steering

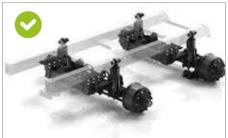


Individual wheel arches in combination with hydr. suspension







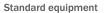


Hydraulic axle suspension



For vacuum tank: turbo filler positioned centrally under tank – for suction on either side







Poly Line tank trailer

Pump tank from 9000 I to 18,500 I High-pressure tank from 6000 I to 18,500 I

- GRP tank made in Germany
- Easy to clean
- **Extremely low centre of gravity**
- Robust frame construction
- Low net weight



PFW Poly Line	Tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm
9000 single-axle Individual	750/60 R 30.5	approx. 3410 +/-30	3650
11000 single-axle Individual	850/50 R 30.5	approx. 3280 +/-30	5050
11000 tandem Individual	750/45 R 26.5	approx. 3280 +/-30	5050
12500 tandem Poly Line Plus	750/60 R 30.5	approx. 3380 +/-30	5050
14000 tandem Poly Line Plus	750/60 R 30.5	approx. 3580 +/-30	5050
15500 tandem Poly Line Plus	750/60 R 30.5	approx. 3380 +/-30	6450
18500 tandem Poly Line Plus	750/60 R 30.5	approx. 3580 +/-30	6450









- The porthole facilitates visual control during filling
- · Low centre of gravity
- Perfectly integrated and easily accessible pressure line





Push cover, 600 x 600 mm, pneumatic or hydraulic



Jumbo Gigant Plus tandem assembly for 15,500 I and 18,500 I Poly Line Plus



Gigant tandem assembly for 11,000 I, 12,500 I and 14,000 I Poly Line Plus

»Big Foot«

Pump/Vacuum tanks with a capacity of 16,000 I and 18,000 I





800/60 R34 tyres



Hydraulic turbo filler, centrally under tank



Double-sided drawbar suspension



Standard equipment





PFW BIG FOOT tandem	Tyres	Total height in mm with trailing shoe spreader	Container length (shell) in mm	Container Ø in mm
1 6000 tandem	800/60 R 34	approx. 3610 +/-30	6500	1800
18000 tandem	800/60 R 34	approx. 3720 +/-30	6500	1900
VFW BIG FOOT tandem				
1 6000 tandem	800/60 R 34	approx. 3630 +/-30	6500	1800
1 8000 tandem	800/60 R 34	approx. 3730 +/-30	6500	1900

»Twist Line«

Pump tank with a capacity of 13,000 I

Thanks to the central mounting, the axle of the single-axle tank can be rotated by approx. 11 degrees relative to the tank container to enable travel in crab steering mode. As a result, soil compaction is greatly reduced. As soon as the axle turns, the optional three-point hydraulics are swivelled accordingly, thus eliminating the need for an additional pivoting headstock for the attachment.





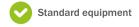
Three-point hydraulics turn with the axle steering movements



8" suction arm, hydr. swivelling



Double-sided drawbar suspension





AGILE AND SOIL-FRIENDLY







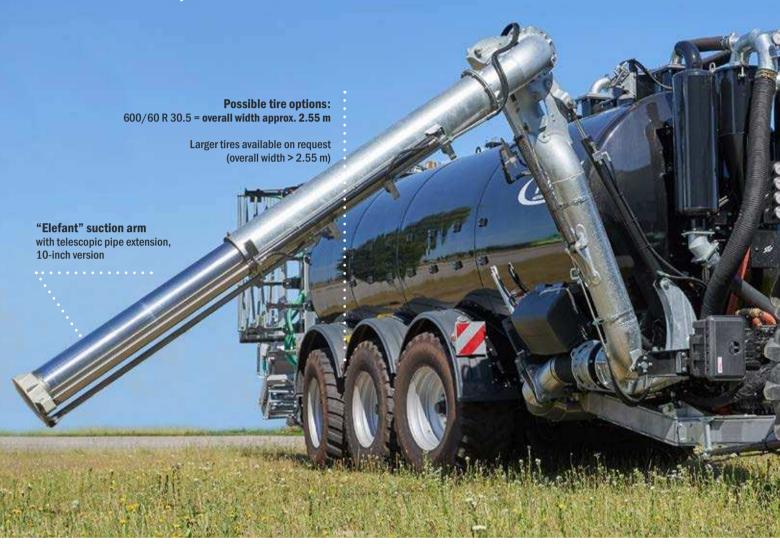




Very easy to maintain: mechanically operated rotary piston pump incl. reduction gear

VFW 30.000 "Power Turbo Line"

Including 10" "Elefant" suction arm with telescopic pipe extension and attached slurry cultivator GUG 60



Features

Permissible total weight: 31,000 kg

Overall width depending on tires: approx. 2.55 m

Corrosion protection / tank: interior coated / exterior painted

Tank wall thickness: 6 mm

Suction depth with "Elefant" suction arm: at least 4 m

Extension range of "Elefant" suction arm: 1.5 m



Compressor Battioni BLW 360 36000 Liter/min or BLW 240 24000 Liter/min





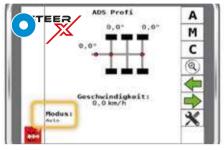




Proportional control of "Elephant" suction arm via joystick



ISOBUS control for Fliegl Slurry Tanker FST



Electronic forced steering "Steer X" via ISOBUS



Or Hydraulic forced steering



Foam separator; silencer with oil separator



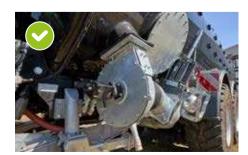
Bypass system for turbo filler with 2 x 10" slide valves; suction and discharge of slurry possible via "Elephant" suction arm



Air suspension



Hydraulic load-sensing control block



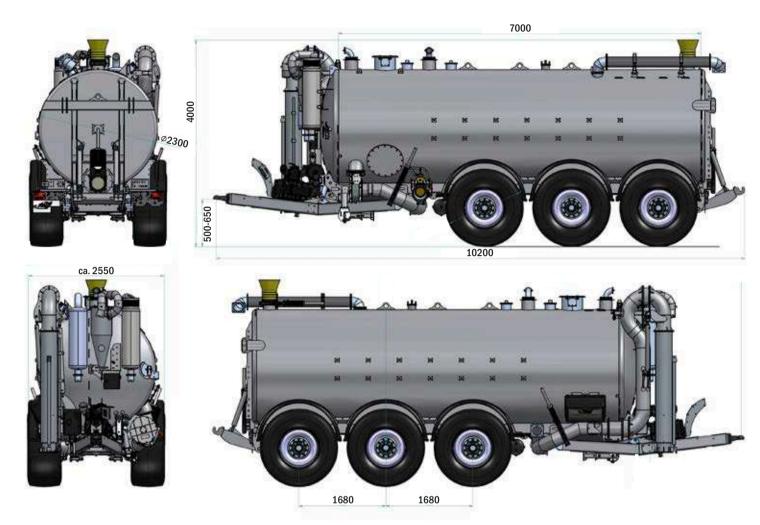
Turbo filler hydraulically driven on the left side

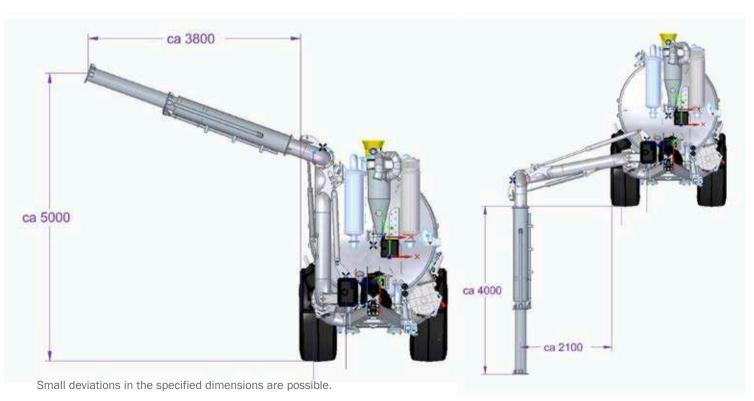


Four-point hydraulic linkage with lifting capacity of approx. 6 tons

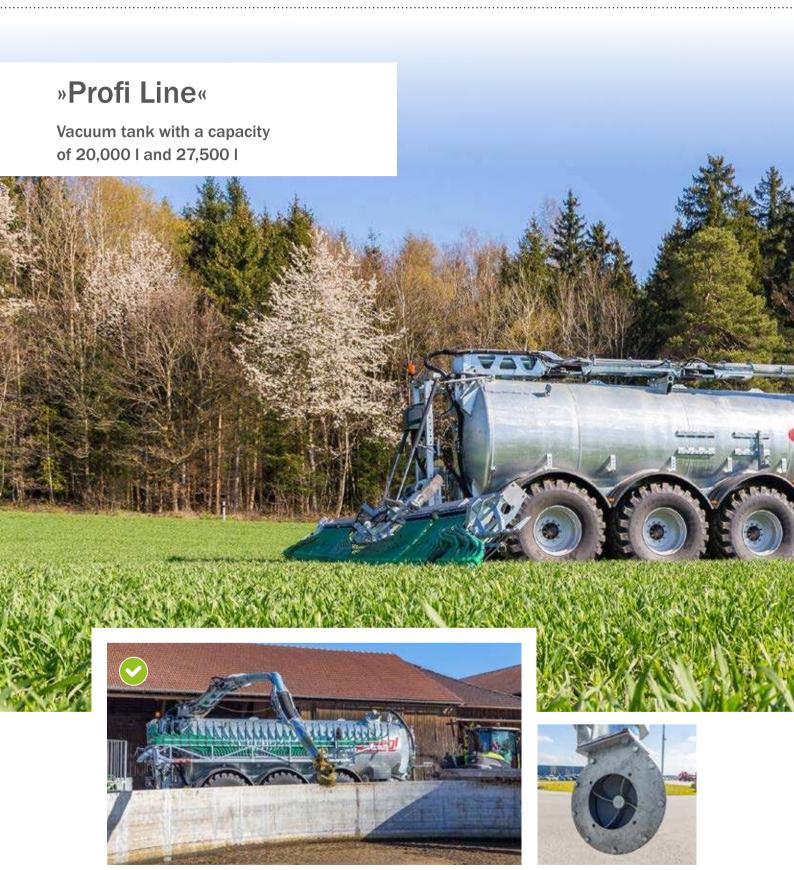


Drawbar suspension









Transfill suction boom – operated via Joystick control. Proportional operation. Approx. 10 m fully extended. Flexible application thanks to robust slewing ring and three joints. Turbo filler at end of boom for outstanding suction performance.





Drip pan for Transfill suction boom with automatic emptying on the field



Air suspension Optional: hydraulic suspension



Heat-resistant compressor Optional: water-cooled compressor



Standard equipment











VFW 14000 Individual with Garda pump

TANK SIZES FOR INDIVIDUAL TANKS			
Vacuum tanks	Pump tanks	High-pressure tanks	
10600	10600	5000	
12000	12000	6200	
14000	14000	7500	
16000	16000	8600	
18000	18000	10600	
20000	20000	12000	
22000	22000	14000	
25000	25000	16000	
30000	.	18000	
		20000	
		22000	
		25000	
		27500	











Maintenance-friendly "PolyFant" rotary lobe pump



Very easy to maintain: mechanically operated rotary piston pump incl. reduction gear





Special frame construction made from fine-grain steel





Road X Line

transport tanks in steel construction for your tractor

- High performance
- Robust technology
- High transfer capacity
- Low net weight





Centrifugal pump for transferring



6" transfer arm / length: 6 m



- Hydraulic drawbar suspension
- · Air suspension



- Hydr. filling dome, 600 mm Ø
- 6" transfer arm, length 6 m incl. hopper for storage
- Riser pipe with 8" docking funnel
- · Hydraulic forced steering
- Tyres: 445/65-R22.5 or 560/600-R22.5

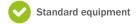
TFW with turntable

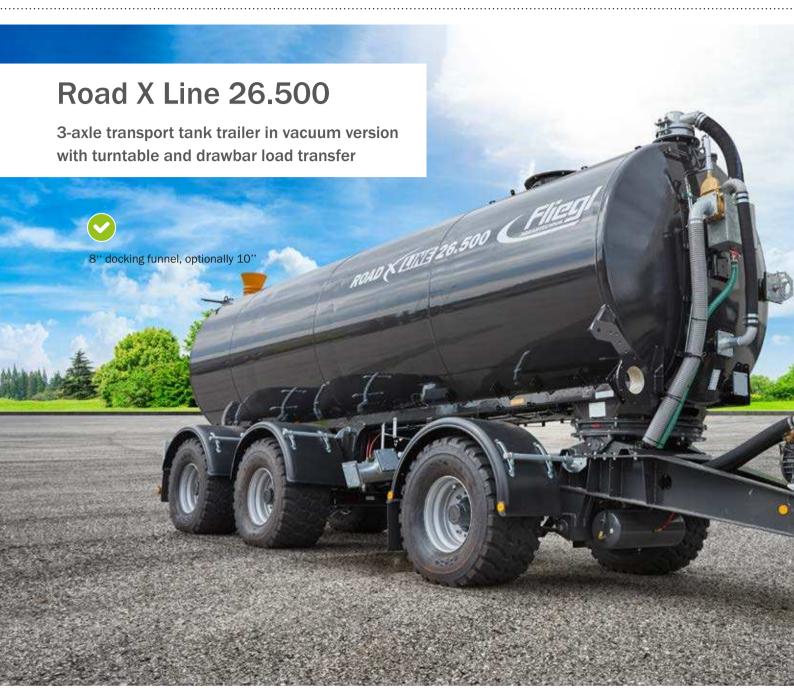
Capacity: 14,000 | | 16,000 | | 20,000 |



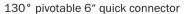


Road X Line	Container length (shell)	Total height with 445/65 R 22.5 tyres incl. top docking with riser pipe
16,000 tandem	6,000 mm	n/a
20,000 tandem	6,000 mm	n/a
25,000 tridem	7,450 mm	3,700 mm
27,500 tridem	7,450 mm	3,750 mm











8" suction nozzle for comfortable suction



8" turbo filler for left/right suction

Road X Line Co

Container length (shell)

Total height with 560/60 R 22.5 tyres incl. top docking with riser pipe

26.500 Dreiachs 7.450 mm 3.950 mm



Heat-resistant compressor 13.500, mechanically driven

TFW with turntable and top hitch

Volume: 14.000 L | 16.000 L | 20.000



TFW 20.000 three-axle



TFW 14000 three-axle







Rear docking funnel at top of tank



SAF axles with disc brake



Pneumatic push cover for external filling from above





Additional fill level indicator via Plexiglas tube



Powerful rotary piston pump from Vogelsang (model VX 186-260Q) with auxiliary suction function for emptying the slurry hose when reported as full



Storage compartment for suction hose

- Lower traction force requirement and high payload thanks to low net weight
- Excellent handling thanks to high-quality chassis components
- Stainless steel construction ensures long service life

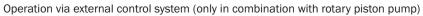
- High performance for suction and transfer with optional

 Vogelsang rotary piston pump and transfer arm
- Optimum stirring action with integrated purge line in combination with rotary piston pump











Operation via radio remote control









Powerful Rotary Lobe Pump by Vogelsang VX 186-260 Q with suction function for emptying the slurry hose after reaching full indication.



Control via Radio Remote Control

STF 28.000 Two-Axle Agro Truck

Excellent driving performance due to high-quality chassis components.

- Tank capacity: 28,000 L
- Steel tank construction (28,000 L), specially coated on the inside, painted on the outside.
- Chassis frame made of high-strength fine-grain steel.
- High performance for suction and transfer operations.
 - Optional: Vogelsang rotary lobe pump and transfer arm.
- Control of the transfer arm via manual lever or radio remote control.
- Optimal stirring function thanks to integrated flushing line (in combination with the rotary lobe pump).
- Tires: 600/55 R 26.5"
- Coupling height: approx. 1,400 mm



Slurry couplings

All Fliegl tanks use the »Italian system « as standard.

THE »ITALIAN« SYSTEM







With this system, levers are welded to the M-piece. The V-piece features a ball with a loose clamping ring.

This ring must have a sharp edge where the levers of the M-piece engage. If this edge is rounded, this is known as the "Bazzoli Siegperle" system.

To determine the size of the Italian coupling, you must measure either the outside diameter of the V-piece or the inside diameter of the M-piece.

The outside diameter of the V-piece or the inside diameter of the M-piece must be the same for the M-piece and the V-piece. The coupling hose connector is measured on the outside or by the inside hose

Sizes of the Italian system M-piece (with O-ring)

Inside dim. A 131 mm = 4" Inside dim. A 151 mm = 5" Inside dim. A 181 mm = 6" Inside dim. A 245 mm = 8" Inside dim. A 301 mm = 10" Inside dim. A 371 mm = 12"

V-piece (with loose clamping ring)

Outside dim. B 130 mm / inside dim. A 100 mm = 4 " Outside dim. B 150 mm / inside dim. A 120 mm = 5 " Outside dim. B 180 mm / inside dim. A 150 mm = 6 " Outside dim. B 240 mm / inside dim. A 205 mm = 8 " Outside dim. B 300 mm / inside dim. A 254 mm = 10 " Outside dim. B 370 mm / inside dim. A 304 mm = 12 "

Hose sizes

4" = 100 mm 5" = 120 mm 6" = 150 mm 8" = 200 mm 10" = 250 mm 12" = 300 mm





6" quick coupler

THE »PERROT« SYSTEM





This system features a movable ring on the **M-piece to which the levers are attached**. The **V-piece has a cone** and consists of only one part. To determine the size of the Perrot coupling, you must measure either the outside diameter of the V-piece or the inside diameter of the M-piece. The coupling hose connector is measured on the outside or by the inside hose diameter.

Sizes of the Perrot system M-piece (with 0-ring)

Inside dim. A 150.0 mm = 4 " Inside dim. A 171.5 mm = 5 " Inside dim. A 203.5 mm = 6 " Inside dim. A 288.0 mm = 8 "

Perrot V-piece

Outside dim. B 155 mm / inside dim. A 108 mm = 4"
Outside dim. B 179 mm / inside dim. A 133 mm = 5"
Outside dim. B 211 mm / inside dim. A 159 mm = 6"
Outside dim. B 313 mm / inside dim. A 216 mm = 8"

Hose sizes

4" = 108 mm 5" = 133 mm 6" = 159 mm

8" = 216 mm





Perrot 6" quick coupler



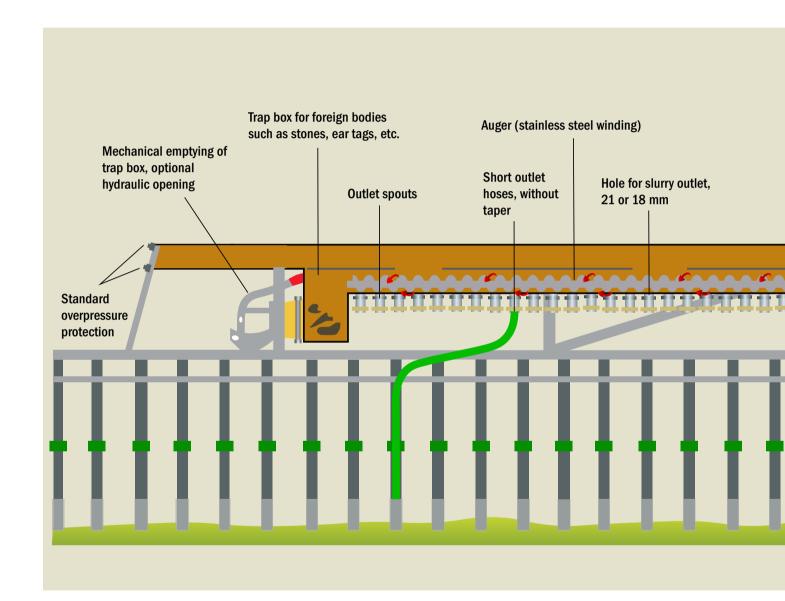


Fliegl screw distributor

Part of all Fliegl spreading systems

Function

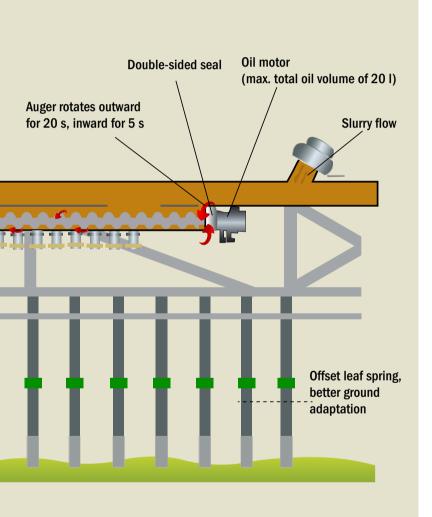
The function of the screw (50 - 60 rpm) is not to distribute slurry, but to convey foreign objects outwards into the trap box. The timing relay is set such that the screw runs outwards for approx. 20 seconds and inwards for 5 seconds.



- + Unbeatable foreign object separation without clogging
- + Uniform longitudinal and transverse distribution even on inclines

Function



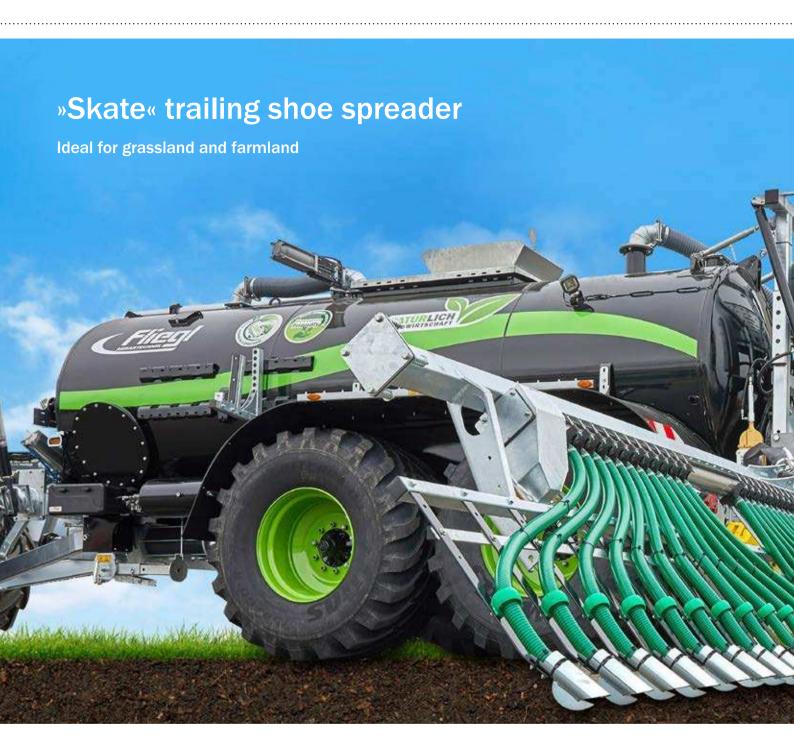




Trap box for foreign objects, emptied mechanically or hydraulically



Foreign objects such as pieces of wood, stones, earmarks etc. are easily removed from the system



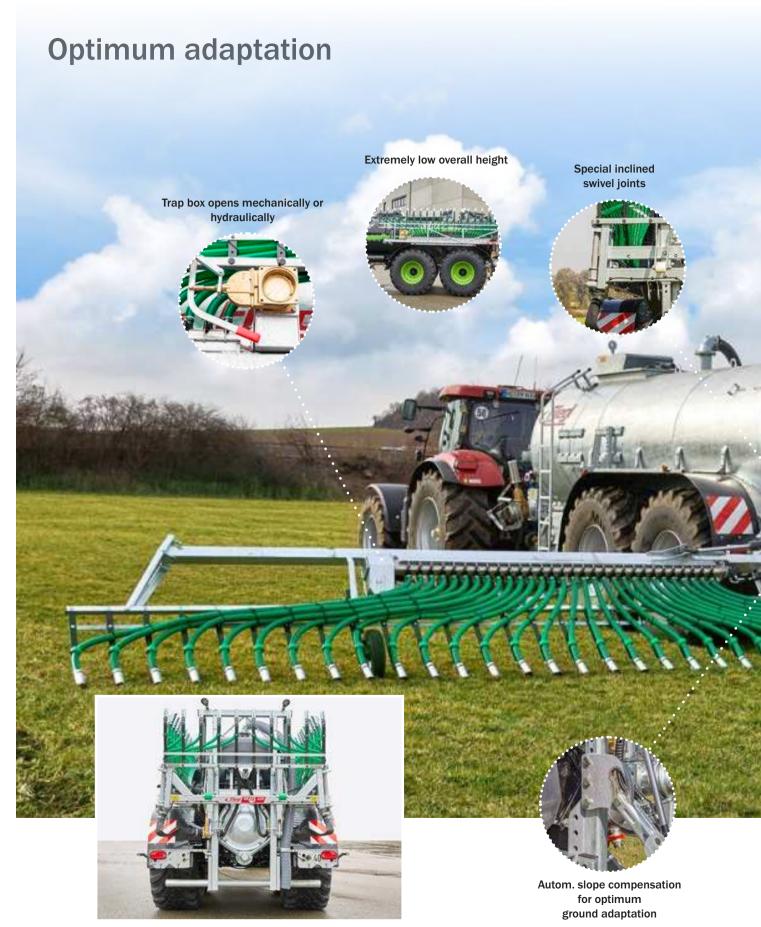
		SKATE 60	SKATE 75	SKATE 90	SKATE 120	
Working width	m	6	7,5	9	12	
Number of outlets		24	30	36	48	
Weight	kg	660	900	1100	1300	
Transport width (top/bottom)	mm	2300/ 2600	2300/ 2600	2300/ 2600	2300/ 2600	
Boom ends hydr. folding	m	-	-	-	-	



SKATE 150	SKATE 180
15	18
60	72
1550	1850
2300/ 2600	2300/ 2600
15/12	18/15

Working widths from 6 to 18 m

- Solid design combined with low net weight thanks to special frame and spreader construction
- No reduction in drawbar load as trailing shoe spreader makes full contact with the ground
- High coulter pressure of 8 kg per slit shoe
- With automatic slope compensation as standard
- Special inclined swivel joints ensure an extremely narrow transport position and, consequently, excellent all-round visibility
- Very narrow transport width of about 2300 mm at the top
- Automatic drip stop function; spreader is swivelled up by comfort control
- Outstanding slurry distribution, low maintenance and low oil requirement (max. 20 l) thanks to the Fliegl screw distributor
- Special folding mechanism avoids kinks in outlet hoses during extension and retraction
- Sprung slit shoes for optimum ground adaptation
- Mechanical or hydraulic boom section control possible
- Mechanical shut-off of individual hose outlets possible
- Simple mounting directly on the tank, even with oldermodels
- Comfort control with automatic folding and headland function as standard
- Operation via tractor control unit (pressure-free return required) or via load sensing
- Control via ISOBUS possible
- Narrow hose spacing of 250 mm is ideal for grassland and farmland



Extremely compact transport dimensions: transport width of 2600 mm at bottom and 2300 mm at top



Fliegl SKATE: Very good results in DLG test

Function and processing quality, handling, operation and maintenance



MEASURED TIME IN SECONDS UNTIL SLURRY FLOWS FROM ALL SPREADER OUTLETS

Test	Duration in seconds
Cattle manure, 4100 l/min	1.7
Cattle manure, 2924 I/min	2.3
Pig manure, 4101 l/min	1.3
Pig manure, 2928 I/min	1.5



Full test report

RESULIS FOR TRANSVERSE DISTRIBUTION OF CALLE AND PIG MANURE							
Slurry type	РТО	Pump	Volume flow rate	Discharge rate	Coefficient of variation	Mean deviation	Rating
Cattle manure	740 rpm	370 rpm	4100 l/min	39.4 m³/ha at 5.2 km/h	3.2%	2.3%	++
Cattle manure	520 rpm	260 rpm	2924 I/min	18.3 m³/ha at 8.0 km/h	2.7%	2.2%	++
Pig manure	740 rpm	370 rpm	4101 l/min	39.4 m³/ha at 5.2 km/h	4.4%	3.4%	++
Pig manure	520 rpm	260 rpm	2928 I/min	18.3 m ³ /ha at 8.0 km/h	4.3%	3.0%	++

^{*} Rating based on mean deviation: $++ = \le 5\%$, $+ = \le 10\%$, $0 = \le 15\%$



MEASURED TIME IN SECONDS UNTIL SLURRY FLOWS FROM ALL SPREADER OUTLETS

Test	Duration in seconds
Cattle manure, 5475 l/min	1.7
Cattle manure, 3871 I/min	2.6
Pig manure, 5196 l/min	1.4
Pig manure, 3640 I/min	2.1



Full test report

RESULTS FOR TRANSVERSE DISTRIBUTION OF CATTLE AND PIG MANURE

Slurry type	РТО	Pump	Volume flow rate	Discharge rate	Coefficient of variation	Mean deviation	Rating
Cattle manure	560 rpm	560 rpm	5475 l/min	39.8 m ³ /ha at 5.5 km/h	3.9%	3.1%	++
Cattle manure	390 rpm	390 rpm	3871 l/min	19.4 m³/ha at 8.0 km/h	3.9%	3.0%	++
Pig manure	560 rpm	560 rpm	5196 l/min	40.0 m ³ /ha at 5.2 km/h	4.7%	3.8%	++
Pig manure	390 rpm	390 rpm	3640 l/min	18.2 m³/ha at 8.0 km/h	3.7%	3.0%	++

^{*} Rating based on mean deviation: $++ = \le 5\%$, $+ = \le 10\%$, $0 = \le 15\%$

Accessories for »Skate« trailing shoe spreader



















- **1.** Boom section control, mechanical or hydraulic
- 2. Control of hydraulic functions via load sensing
- 3. Upgrade for extremely high fibre content: shredding cutter for central mounting between tank and spreader (60 I oil capacity required). Powered directly via the tractorcontrol unit
- Only on SKATE 150 and 180: integrate impact protection – retraction reduces the working width
- **5.** Hydraulic emptying of trap box
- **6.** Feeler wheels for smoother operation at high travel speeds
- Standard: T-piece for additional outlet, side deactivation required
- 8. Mechanical shut-off of individual hoses



- Bypass control for gate valve side deactivation, hydraulic.
 Only possible with complete orders incl. pump tanks
- **10.** Working light for illuminating the spreader
- **11.** Additional spreading option with mounted baffle plate spreader
- 12. Supporting feet

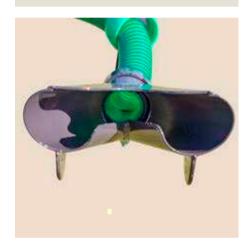


Fliegl TWIN – say goodbye to thick slurry trails

Fliegl TWIN is a V-shaped trailing shoe nozzle. It splits the slurry flow and thus halves the slurry quantity used for each slurry trail while simultaneously doubling the number of trails.

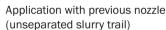
Benefits

- Significantly lower feed contamination
- Greater efficiency during slurry application
- Increased substrate infiltration
- Can be retrofitted to existing Fliegl trailing shoe spreaders











Application TWIN V-nozzle (split slurry trail)



Work result with TWIN nozzle

The perfect retrofit



Retrofit: note the drawbar load and permitted total weight of the tanker



Scope of delivery: pre-assembled trailing shoe spreader, control panel and control block, H-frame, transport lock, T-piece with flexible hoses for the slurry feed

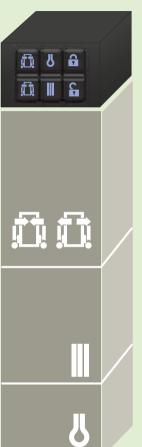
Control

SKATE

for SKATE, SKATE SD, SKATEMASTER and SKATE EASY

Control via **ISOBUS** 59.00 bar 11.50°C User interface for Fliegl SKATE in combination with

Comfort control (standard equipment)



- Assists the driver and prevents operating errors
- The ergonomic control panel is backlit, while the plug connection enables easy disconnection from the cable so that the control panel can remain in the tractor.
- The folding of the spreader arms is monitored by sensors in all positions, which enables synchronised and dampened folding even on slopes.

AUTOMATIC FOLDING

The spreader:

- · Lifts out of the mechanical transport lock
- · Folds the spreader arms back
- Lowers into working position

AUTOMATIC SPREADING

- Discharge valve opens
- · Spreading augers start working

AUTOMATIC HEADLAND FUNCTION

- · Spreading augers switch off
- Gate valve closes
- Spreader folds up



ISOBUS adapter cable enables quick changeovers



EASY comfort control panel

Using the ISOBUS adapter, the SKATE can be operated either with the standard EASY comfort control or via an ISOBUS terminal.

Users can thus easily switch between older and newer tractors.

Trailing shoe spreader »SKATEMASTER«







PROVEN FEATURES

- Comfort control system, standard preparation for ISOBUS
- Low oil requirement during application max. 20 L/min
- Excellent foreign body separation
- Very compact transport dimensions
- Precision in application: outstanding results in slurry distribution
- Easy retrofit to existing tanks

THE NEXT GENERATION







OPTIONS

- For even higher cutting performance:
 - Larger auger with Ø 115 mm instead of standard Ø 85 mm
- TWIN nozzle: division of the slurry jet at the outlet

 Doubling of discharge hoses (for improved infiltration)
- Hydraulic emptying of the collecting box

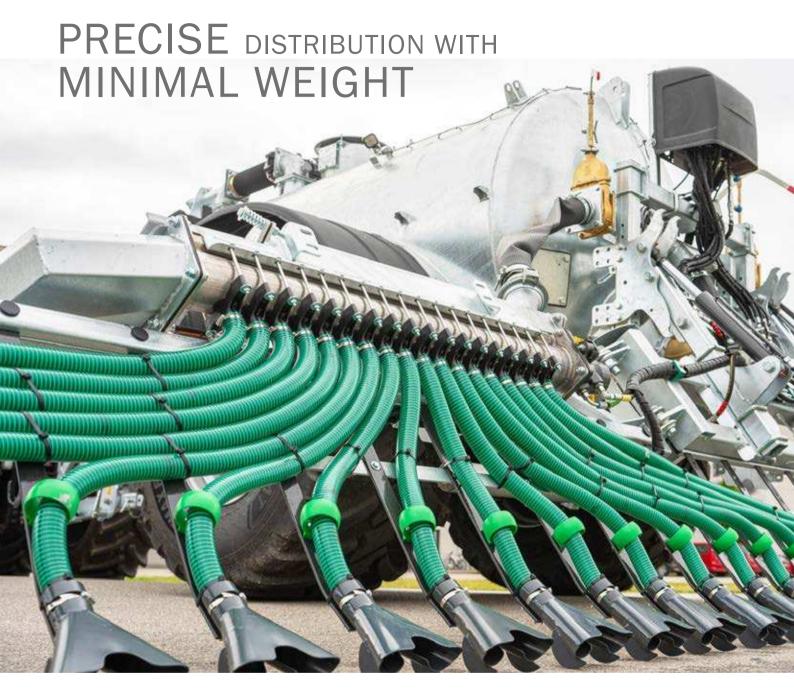
- Slide gate section control
 Left and right, mechanically or
 hydraulically operated
- Gauge wheels
- LED work lights
- Four-point hitch



- Excellent accessibility, e.g. for cleaning and maintenance work
- Innovative boom design
- Perfect ground adaptation during operation thanks to the floating position of all folding cylinders (from SKATEMASTER 150 onwards)



SKATEMASTER		120	150	180	210	240	300
Working width	m	12	15	18	21	24	30
Number of outlets		48	60	72	84	96	120
Transport width	mm	2700	2700	2990	2990	2990	2990
Working width adjustable		-	-	-	21/15	24/15	30/21



PROVEN FEATURES

- Comfort control system, standard preparation for ISOBUS
- Low power and oil requirement during application max. 20 L/min
- Excellent foreign body separation
- Precision in application: outstanding results in slurry distribution
- Easy retrofit to existing tanks

OPTIONS

- For even higher cutting performance:
 Larger auger with Ø 115 mm instead of standard Ø 85 mm
- TWIN nozzle: division of the slurry jet at the outlet, doubling of discharge hoses (for improved infiltration)
- Hydraulic emptying of the collecting box
- Slide gate section control left and right, mechanically or hydraulically operated
- LED work lights



Trailing shoe spreader »SKATE EASY«

- Very lightweight distributor for small tanks
- Excellent ground adaptation
- Easy operation via comfort control system
- Smart and compact design extremely small transport dimensions



SKATE EASY		60	75	90
Working width	m	6	7,5	9
Number of outlets		24	30	36
Transport width	mm	2300	2300	2300
Weight approx.	kg	600	670	700



Shoe spacing of just 187,5 mm



		SKATE 120 SD	SKATE 150 SD
Working width	m	12	15
Number of outlets		64	80
Weight	kg	1350	1600
Transport width (top/bottom)	mm	2300/ 2600	2300/ 2600

Not compatible with TWIN nozzle!



SKATE 150 SD

- More slurry trails are applied closer together
- Reduces the amount of slurry applied by each hose
- 1 Improved infiltration of the substrate
- Optimum line spacing for use in row crops

REDUCED LINE SPACING MORE SLURRY TRAILS

CAN ALSO BE USED IN TALLER CROPS

»Snake« trailing shoe spreader

Variable use for slurry hose system or self-propelled transporters

- Soil-friendly slurry application
- Slurry application even in extremely wet weather and on marshy ground

Perfect system for steep inclines



Ideal for your self-propelled slurry tanker

Kern

The Snake can be attached to any self-propelled slurry tanker in a matter of minutes, making this an exceptionally flexible system.

The spreader arms are folded together behind the towing machine. The size and shape of the container are irrelevant.

No mountings need to be attached to the tank and the spreader arms do not extend up to the cabin, which has a positive impact on all-round visibility.

Compact transport dimensions ensure very safe handling, particularly during road transport.





- Working widths of 8.50/12.00/15.00 m
- Extremely compact transport dimensions with 2.60 m width and max. 3.80 m height thanks to package folding mechanism.
- Equipped with the tried-and-tested Fliegl screw distributor
- Drip-stop function with hydraulic folding on headland

Draw tube

- Hydraulically swivelling draw tube enables accurate guiding of the slurry hose and ensures comfortable turning on the headland
- Centred by two chains of equal length
- The Fliegl Flow Control digital flow meter helps to ensure an even slurry application

»Garant« drag hose spreader









Pressure sequence valve



With optional »Easy« comfort control

Working width of 6 to 18.00 m

- Slurry is deposited in strips directly on the soil surface
- With the tried-and-tested Fliegl screw distributor
- Foreign objects are automatically conveyed to the trap box
- Layout and structure of the frame and spreader arms as on the Fliegl SKATE
- Controlled via two tractor control units

(1x for folding mechanism, 1x fr screw distributor)

- Required oil capacity of max. 20 I
- Minimal power requirement

»Vario-Disc« slurry injector

Patented system for perfect incorporation on grassland and farmland







Infinite adjustment of discs

Working width of 3.00 m, 5.60 m and 7.15 m

- · Use on farmland and greenland
- Can be mounted on virtually any slurry tank
- With the tried-and-tested Fliegl screw distributor
- Fully galvanised frame

- Maintenance-friendly
- Hydraulic folding mechanism
- Adjustable support wheels
- · Robust taper roller bearings
- Disc diameter 530 mm

»Maulwurf« compact disc harrow

Easy-pull soil cultivation and targeted incorporation of slurry in a single operation



Working width of 3.00 m, 5.70 m and 6.90 m

- With the tried-and-tested Fliegl screw distributor
- Thanks to the large coulter discs, the subsoil is turned over and the slurry completely covered in a single operation
- Hydraulic folding mechanism (for 4.50 m and 6.00 m working widths)
- Large adjustable support wheels
- Robust taper roller bearings
- Disc diameter: 510 mm



»GUG Profi« slurry cultivator

Powerful soil cultivation and targeted incorporation of slurry in a single operation







GUG working width: 3.00 m | GUG Profi working width: 4.50 m and 6.00 m

- · For uncultivated farmland
- Robust cultivator tines for the toughest applications
- Replaceable dual-heart blades
- Can be mounted on virtually any slurry tank
- With the tried-and-tested Fliegl screw distributor
- Fully galvanised frame
- Hydraulic folding mechanism (for 4.50 m and 6.00 m working widths)
- Maintenance-friendly
- · Easy to operate
- Height-adjustable support wheels

Other spreading systems

Observe the national fertiliser ordinance









Combi spreader, folding



Hydraulic pendulum spreader with working width from 12 to 18 m.





Be it baffle plate, pendulum or bar spreaders: in addition to ground-level injection systems, we also offer classic spreading systems such as baffle plate, wide and combi spreaders.





Pendulum spreader for coarse-droplet application



ISOBUS APPLICATIONS EASY COMPATIBILITY







Fliegl Slurry Tanker

Perfection in slurry spreading



Fliegl Slurry Tanker (FST) is a control system that enables convenient control of the various functions of a slurry tanker via an ISOBUS display.

- Facilitates slurry application
- Greater ease of use and enhanced safety during fertilisation
- The control system uses the existing ISOBUS display, thus eliminating the need for an additional control panel in the tractor.
- Compatible with any ISOBUS display (AEF certification)
- Load-sensing-enabled as standard i.e. the hydraulic functions are always supplied only with the quantity of oil actually required; this not only reduces oil heating but also fuel consumption.



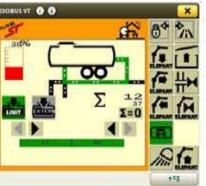
Three different modes

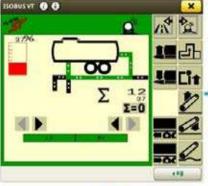
Separate modes are provided for road, farm and field operation.

This is because only specific functions are available in each mode. In farm mode, for example, the three-way valve at the rear cannot be operated since this mode is intended for filling operations.

Malfunctions or operator errors are thus excluded.

Field mode consists of one or more pages, depending on the number of tank functions.





User interface for FST farm mode

User interface for FST road mode

User interface for FST field mode

The Fliegl Slurry Tanker principle combines two crucial advantages: clarity and safety during operation. At any given time, only the applications relevant to the current mode can be used. For example, it is not possible to open the slurry gate valve in road mode since only the drawbar suspension and hydr. axle adjustment functions can be operated in this mode.







ISOBUS job computer

Precision: Fliegl Flow Control

Digital flow rate measurement.



Basic FFC version with digital flow meter



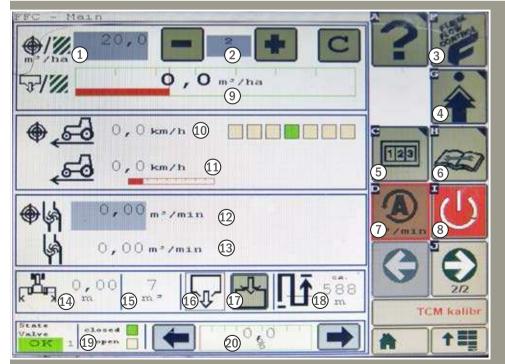
The flow rate during discharge is measured inductively by means of the Krohne Optiflux 2300 digital flow meter.



FFC control cabinet with integrated job computer and ISOBUS interface



FFC user interface on the ISOBUS display



- 1. Entry of discharge rate per ha
- 2. Increase or reduce discharge rate
- 3. Main page
- 4. Settings
- 5. "Totals": Information on total amount of slurry spread, duration, etc.
- 6 Diagnostics
- 7. Switch from automatic to manual operation
- 8. On/Off button
- 9. Current discharge rate per ha
- 10. Target speed
- 11. Current speed
- 12 Target flow rate
- 13 Current flow rate
- 14. Current working width
- 15. Total slurry discharged
- 16. Emptying signal
- 17. Filling signal
- 18. Range display
- 19. Setting of three-way valve
- 20. Display of three-way valve position



+ three-way valve

With the optional flow rate control (DMR), the flow rate (per minute) is automatically adapted to the travel speed via an electric cylinder attached to the three-way valve. Particularly on sloping terrain, frequent adjustments must be made by the driver. With this system, the required discharge rate (per hectare) is maintained regardless of the travel speed.



+ discharge accelerator

The flow rate control for vacuum tanks is implemented by means of a hydr. controlled discharge accelerator at the rear of the tank. The speed of the accelerator is adjusted via a stepper motor valve on the control block. Even when the travel speed is changed, the required discharge rate is maintained by adapting the revolutions on the discharge accelerator accordingly.

TIA

Tractor Implement
Automation

FFC/AMR

Spreading rate control (AMR) by means of automatic adaptation of the travel speed on the tractor.

With the spreading rate control, the slurry volume is controlled by means of active intervention in the tractor's travel speed based on the flow rate measurement on the tank.

Tractor Implement Automation (TIA) is only available for infinitely variable tractors featuring the ISOBUS class III system (implemented by the tractor manufacturer) and is only recommended for **very level surfaces**.



It's what's inside that counts!

Nutrient-based spreading with Manure Sensing

As slurry is often very heterogeneous, you never actually know the nutrient content that is being spread per hectare at a given time. With Manure Sensing, the nutrient content (N, NH4, P, K) of the slurry is measured in real time. If you know the nutrient concentration of the slurry in the tank, you can adapt the discharge rate to the nutrient requirement for the relevant surface. In combination with **Fliegl Flow Control**, the discharge rate can be adjusted in kg N/ha. This allows you to optimise the nutrient balance, make the best use of the nutrients in your slurry and maximise your potential yield. This makes managing the nutrient balance much simpler since, similarly to mineral fertilisation, you know exactly how many kilogrammes of each nutrient have been spread per hectare. Moreover, if you make optimum use of your slurry with Manure Sensing, you can usually reduce the amount of mineral fertilisers used.





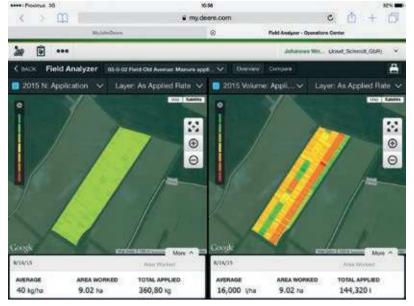
John Deere HarvestLab 3000 uses near-infrared (NIR) spectroscopy to determine the various constituents of slurry, harvested crops or silage in less than a second.



Gold medal for John Deere

Product: Connected Nutrient Management





Left: slurry spread based on kg N/ha

even N distribution on the field

Right: slurry distribution in I/ha

uneven N-distribution inside a tank

- Real-time measurement of N, P, K, NH4, dry mass and volume, directly before the applicator
- Precise, requirement-based spreading of organic and mineral N and P fertilisers
- Automatic tractor speed adjustment (only for infinitely variable John Deere tractors with ISOBUS class 3)
- · Documentation:
 - Volume applied
 - Nutrients applied

(total per field and specific subareas)

- Utilises the entire nutrient potential
 of the slurry while also complying with
 statutory regulations. The advantages are
 clear: Yields and product quality are
 maximised while costs for mineral fertilisers are reduced.
- Maximum control range and rapid response based on speed variation and – in the second instance – adjustment of the flow rate via

Fliegl Flow Control

- Combines the expertise and technologies of all innovation partners and thus enables nutrient application in accordance with the national fertiliser ordinance.
- Maximised yield potential



Fliegl Nutrient Measure Station

Active on-site measurement of nutrients in real time

High flexibility

- 6" and 8" versions available
- Straightforward intake via suction nozzle
- With integrated flow meter (records the total amount of nutrients)
- Tried-and-tested John Deere HarvestLab sensor for measuring digestate, cattle and pig manure (expandable for measurements at the shredder)
- Measurement of dry mass, total nitrogen (N),
 ammonium nitrogen (NH4-N), phosphorus (P205), potassium (K20), volume, mass
- Software enables creation of customers and vehicles and generation of measurement reports
- Data transfer via Wi-Fi router
- · Convenient transport via forklift pockets, three-point hitch or Euronorm mounting



John Deere HarvestLab 3000

HarvestLab™ 3000 uses near-infrared (NIR) spectroscopy to determine the various constituents of harvested crops, silage or slurry in less than a second. The new HarvestLab™ 3000 uses state-of-the-art technology and is based on millions of hours of farming experience. Thanks to its 12% wider wavelength spectrum, the sensor achieves greater accuracy and provides more than 4000 measurement points per second. You do not simply receive the result of a random sample check but are instead provided with statistically reliable data in real time.

SHAPING THE FUTURE. JOINING FORCES.

When two strong partners unite their passion for agricultural technology, something greater than technology itself emerges – progress.

Fliegl Agrartechnik and Stapel are forging new paths together. This partnership combines experience, innovation, and a shared commitment to making slurry technology more sustainable, efficient, and future-proof. Our common goal: to create solutions that ease the workload for farmers, conserve resources, and make everyday fieldwork simpler and more productive.





















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